

PATENT
Attorney Docket No.: 393551
Express Mail Label No.: EL927873721US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) Victor F. Petrenko
Serial No. 09/976,210
Filed October 11, 2001
For High-Frequency Melting Of Interfacial
Ice

Examiner

Group Art No.

Confirmation No.

Quang T. Vu

3742

1402

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July 8, 2004

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Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

- under 37 CFR 1.97(b), or
(Within three months of filing national application, or date of entry of national application, or before mailing date of first office action on the merits, whichever occurs last)
- under 37 CFR 1.97(c) together with either a:
 - Statement under 37 CFR 1.97(e), or
 - a \$180 fee under 37 CFR 1.17(p), or(After the CFR 1.97(b) time period, but before final action or notice of allowance, which ever occurs first)
- under 37 CFR 1.97(d) together with a:
 - Statement under 37 CFR 1.97(e)(1) or (2), and
 - a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of issue fee)

Please charge to Deposit Account 12-0600 the sum of \$180.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 12-0600 pursuant to 37 CFR 1.25.

Applicant(s) submit herewith Form PTO 1449 – Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of the application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

Applicant(s) submit(s) herewith Form PTO 1449 – Information Disclosure Citation without copies of U.S. patents or U.S. publications, but includes copies of foreign patents, publications or other information of which Applicant(s) is/are aware, which applicant(s) believe(s) may be material to the examination of the application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

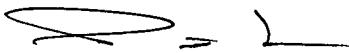
PATENT
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A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counter part foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith

It is requested that the information disclosed herein be made of record in this application

Respectfully submitted,

LATHROP & GAGE LLC


Peter C. Knops, Reg. No. 37,659
2345 Grand Boulevard, Suite 2400
Kansas City, Missouri 64108
Tel No: 816/460-5826
Fax No: 816/292-2001

Substitute for form 1449A/PTO

Complete if Known
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number

09/976,210

Filing Date

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First Named Inventor

Victor F. Petrenko

Art Unit

3742

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Examiner Name

Quang T. Van

Sheet

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of 5

Attorney Docket Number

393551

OFFICE OF PETITIONS**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. ¹	Document Number		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY		
		1,157,344	10-19-1915	E. Thomson	
		1,656,329	01-17-1928	E. G. Sievert et al	
		2,496,279	02-07-1950	Ely, et al.	
		2,870,311	01-20-1959	Greenfield	
		3,204,084	05-07-1963	J.G. Spencer, Jr.	
		3,316,344	04-25-1967	Kidd, et al.	
		3,316,345	04-25-1967	Toms, et al.	
		3,526,920	06-21-1966	Byers	
		3,790,752	02-05-1974	Boaz et al	
		3,825,371	07-23-1974	Roder, et al.	
		3,835,269	09-01-1974	Levin, et al.	
		3,915,883	10-01-1975	VanMeter, et al.	
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		4,054,672	10-01-1977	Inoue, et al.	
		4,082,962	04-01-1978	Burgsdorf, et al.	
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		4,137,447	01-30-1979	Boaz	
		4,190,137	02-26-1980	Shimada, et al.	
		4,278,875	07-14-1981	Bain	
		4,296,298	10-20-1981	Macmaster, et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY			
		SU26363	08-1931	Unknown		
		SU587548	01-05-1978	Nikonets, et al.		
		SU936040	06-15-1982	Osoboe Znak Pocheta		
		CN1079578	12-15-1993	Long		
		EP1168888	01-02-2002	Nippon Sheet Glass Co. Ltd.		
		GB2259287	03-10-1993	Golls Royce		
		FR2570333	03-21-1986	Mendola		
		JP5292638	11-05-1993	Sumitomo Electric Ind.		
		JP7023520	01-24-1995	Sumitomo Electric Co.		

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Date Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number

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First Named Inventor

Victor F. Petrenko

Art Unit

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Examiner Name

Quang T. Van

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U.S. PATENT DOCUMENTS					
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		Number - Kind Code ² (if known)			
		4,321,296	03-23-1982	Rougier	
		4,330,702	05-01-1982	Cheng	
		4,330,703	05-18-1992	Horsma, et al.	
		4,376,598	03-01-1983	Brouns, et al.	
		4,638,960	01-27-1987	Straube, et al.	
		4,651,825	03-01-1987	Wilson	
		4,690,353	09-01-1987	Haslim, et al.	
		4,737,618	04-12-1988	Barbier, et al.	
		4,760,978	08-02-1988	Schuyler, et al.	
		4,773,976	09-27-1988	Vexler	
		4,814,546	03-01-1989	Whitney, et al.	
		4,875,644	10-01-1989	Adams, et al.	
		4,887,041	12-01-1989	Mashikian, et al.	
		4,897,597	01-30-1990	Whitener	
		4,950,950	08-01-1990	Perry, et al.	
		4,974,503	12-01-1990	Koch	
		4,985,313	01-15-1991	Penneck et al	
		5,109,140	04-01-1992	Nguyen	
		5,112,449	05-01-1992	Jozefowicz, et al.	
		5,144,962	09-08-1992	Counts et al	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		JP11041768	2/12/1999	Fujikura Ltd.		
		JP57060684	4/12/1982	Nippon Koei Co. Ltd		
		GB2 252 285 A	8/15/1992	British Aerospace Public Limited Company		
		DE44 40 634	7/25/1996	Gustin		
		WO 94/20819	9/15/1994	Innovative Dynamics, Inc.		
		WO 95/30495	11/16/1995	Donnelly Corporation		

Examiner Signature	Date Considered
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/976,210
(Use as many sheets as necessary)				Filing Date	October 11, 2001
				First Named Inventor	Victor F. Petrenko
				Art Unit	3742
				Examiner Name	Quang T. Van
Sheet	3	of	5	Attorney Docket Number	393551
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Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		5,218,472	06-01-1993	Jozefowicz, et al.	
		5,330,291	07-01-1994	Heath, et al.	
		5,344,696	09-06-1994	Hastings et al	
		5,398,547	03-21-1995	Gerardi, et al.	
		5,411,121	05-01-1995	La Forte, et al.	
		5,441,305	08-15-1995	Tabar	
		5,496,989	03-05-1996	Bradford et al	
		5,511,288	09-03-1996	Geraldi, et al.	
		5,523,959	06-01-1996	Seegmiller	
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		5,555,736	09-17-1996	Wills, et al	
		5,586,213	12-01-1996	Bridges, et al.	
		5,630,360	05-01-1997	Polny Jr.	
		5,744,704	04-01-1998	Hu, et al.	
		5,861,855	01-01-1999	Arsenault, et al.	
		5,873,254	02-01-1999	Arav.	
		5,902,962	11-01-1999	Gazdzinski	
		5,947,418	09-07-1999	Bessiere, et al.	
		6,018,152	01-25-2000	Allaire, et al.	
		6,027,075	02-22-2000	Petrenko	

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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		<i>Application Number</i>	09/976,210
		<i>Filing Date</i>	October 11, 2001
		<i>First Named Inventor</i>	Victor F. Petrenko
		<i>Art Unit</i>	3742
		<i>Examiner Name</i>	Quang T. Van
Sheet	4	of	5
		<i>Attorney Docket Number</i>	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

5 of 5

Complete if Known

Application Number 09/976,210

Filing Date October 11, 2001

First Named Inventor Victor F. Petrenko

Art Unit 3742

Examiner Name Quang T. Van

RECEIVED**JUL 08 2004****OFFICE OF PETITIONS****NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Icing Wind Tunnel", Meeting the Challenges of Ice Testing In a World-Class Facility – BF Goodrich Aerospace Ice Protection Systems, 4 pages	
		"New Goodrich Wind Tunnel Tests Advanced Aircraft De-Icing Systems", by Edward H. Phillips, Uniontown, Ohio, Aviation Week Magazine, Oct. 3, 1998, 3 pages.	
		"The Evolution of Ice Protection Creates a Revolution Ice Detection", BFGoodrich Aerospace Ice Protection Systems, 2 pages, No date.	
		AIA 94-0714, "Interface Influences Upon Ice Adhesion to Airfoil Materials", by A. Reich, BF Goodrich Aerospace/De-Icing Systems, Brecksville/Uniontown, OH (32nd Aerospace Sciences Meeting and Exhibit, January 10-13, 1994) pages 1-8	
		Electromechanical Phenomena in Ice; Victor F. Petrenko; Thayer School of Engineering Special Report 96-2; Feb. 1996.	
		Generation of electric fields by ice and snow friction, by Victor F. Petrenko and Smauel C. Colbeck, (May 1, 1995), pp. 4518-4521.	
		Khusnatinov N N et al: "Electrical Properties Of The Ice/Solid Interface" Journal Of Phusical Chemistry. B, Materials, Surfaces, Interfaces And Biophysical, Washington, D.C. US Vol. 101, 07-17-1997, pages 6212-6214	
		The effect of static electric fields on ice friction; Victor F. Petrenko; J. Appl. Phys. 76 (2), Jul. 15, 1994; 1994 American Institute of Physics.	

Examiner Signature	Date Considered
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